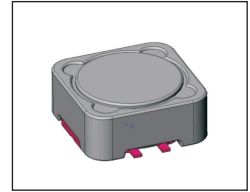


SMT Power Inductor

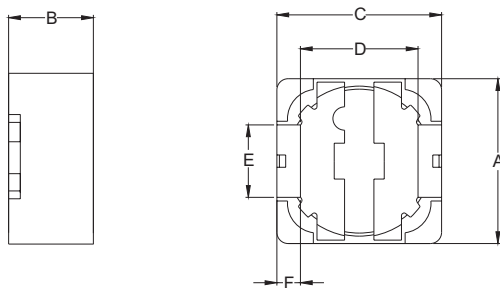
SIQ1055 Type

Features

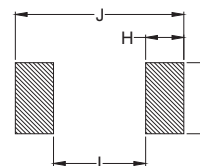
- RoHS compliant.
- Low profile (5.5mm max. height), high current(14A, 1.5uH) SMD type.
- Magnetically shielded, suitable for high density mounting.
- High energy storage and low DCR.
- Provided with embossed carrier tape packing.
- Ideal for power source circuits, DC-DC converter, DC-AC inverters inductor applications.
- In addition to the standard versions shown here, customized inductors are available to meet your exact requirements.



Mechanical Dimension:



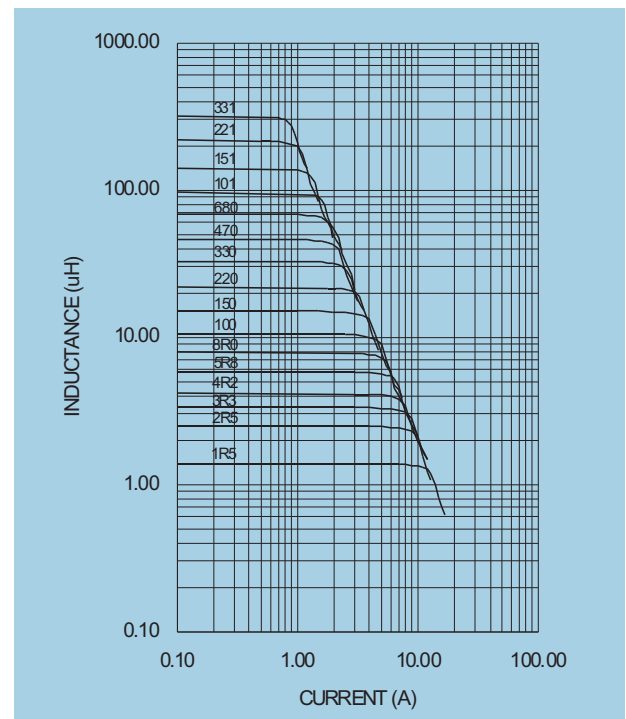
RECOMMENDED PAD PATTERNS



UNIT : mm/inch
 A = 10.3 / 0.406 MAX.
 B = 5.5 / 0.217 MAX.
 C = 10.3 / 0.406 MAX.
 D = 6.4 ± 0.3 / 0.252 ± 0.012
 E = 4.6 ± 0.2 / 0.181 ± 0.008
 F = 1.7 ± 0.2 / 0.067 ± 0.008
 G = 5.4 / 0.213
 H = 2.9 / 0.114
 I = 5.0 / 0.197
 J = 10.8 / 0.425

Electrical Characteristics: 25°C: 100KHz, 0.1V

PART NO.	L ¹ (uH)	DCR (mΩ) MAX.	Isat ² (Adc)	I _{rms} ³ (Adc)
SIQ1055 - 1R5	1.5	7.0	14.00	14.00
SIQ1055 - 2R5	2.5	9.5	10.00	10.00
SIQ1055 - 3R3	3.3	12.5	9.00	9.00
SIQ1055 - 4R2	4.2	14.5	8.00	8.00
SIQ1055 - 5R8	5.8	19.5	7.00	7.00
SIQ1055 - 8R0	8.0	26.0	6.00	6.00
SIQ1055 - 100	10.0	33.0	5.00	5.00
SIQ1055 - 150	15.0	48.0	4.00	4.00
SIQ1055 - 220	22.0	73.0	3.30	3.30
SIQ1055 - 330	33.0	105	2.80	2.80
SIQ1055 - 470	47.0	145	2.40	2.40
SIQ1055 - 680	68.0	220	2.00	2.00
SIQ1055 - 101	100.0	260	1.70	1.70
SIQ1055 - 151	150.0	410	1.40	1.40
SIQ1055 - 221	200.0	740	1.10	1.10
SIQ1055 - 331	330.0	940	0.95	0.95



1. Tolerance of inductance: 1.5~331uH±30%.
2. Isat is the DC current which cause the inductance drop less than 35% of its nominal inductance without current.
3. Ir is the DC current which cause the surface temperature of the part increase less than 45°C.
4. Operating temperature: -20°C to 105°C (including self-temperature rise).



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